Storm-water BMPs
Environmental Management Program

REFUSE
DISPOSAL
DIVISION

Background / Purpose: The Local Enforcement Agency and Regional Water Quality Control Board regulate activity at our landfills through enforcement of the Clean Water Act. The construction of a storm-water clarifier system upstream of the retention basin is intended to eliminate the NOVs and potential fines from storm-water discharges into the adjacent creek. In addition the use of Best Management Practices (BMPs) will reduce the impact on the clarifier system and keep the landfill compliant with the all storm-water regulatory requirements.

Objective: Maintain Storm-water runoff impact compliance to N.P.D.E.S.

Related Significant Aspects: Improper Drainage, Water Use

Target: Zero storm-water runoff violations from the Regional Water Quality Control Board.

Target Completion Date(s): Continuous improvement program with annual improvements and procedures in place by October 31 of each year.

Action Plan: A flocculation system consisting of a drip bucket of Soil-floc upstream of the basin has been found to be a good method of clarifying the storm water**,** pump sedimentation basin down between storm events (10 weeks), install BMPs to include: mulching slopes, silt fencing, erosion control mats and straw wattles where necessary, apply tackifier to selected slopes.

Responsible Person(s): Landfill Engineer, Landfill Engineering staff

Resources Required: Drip bucket and Soil-floc, water pump, fuel, mulch, tackifier, silt fencing, erosion control mats, straw wattles and heavy equipment, labor.

Environmental Performance Indicator(s): Number of Notices of Violation issued per year, number of fines per year, number of additional BMPs instituted at landfill sites.

Comments (including other expected benefits or cost savings): Minimize or eliminate potential for fines from the regulator (Regional Water Quality Control Board –San Diego or L.E.A.)

Baseline Data: Baseline data has not been determined for this EMP as storm-water runoff is dependent on annual rainfall and the San Diego region has been in a below normal rainfall cycle for the past several years. No violations to our storm-water permit have been issued during this time frame.

Prepared by: Rory Clay, Senior Landfill Engineer
Reviewed by: Mark zu Hone, Environmental Management Representative

Approved by: Steven F. Fontana**,** Deputy Environmental Services Director

EMP Schedule					
Step	**Action Items**	**Responsibilities**	**Role**	**Schedule**	**Resources Required**
1	Apply Soil-floc to storm water upstream of basin	Landfill Engineer Landfill Ops	Lead Support	As required	Soil-floc
2	Pump down basin between storm events	Landfill Engineer Landfill Ops	Lead Support	As required	Pump
3	Apply additional mulch to slopes	Landfill Engineer Landfill Ops	Lead Support	10-31-04	Mulch
4	Apply tackifier to selected slopes	Landfill Engineer Landfill Ops	Lead Support	10-31-04	Tackifier
5	Add additional straw wattles where required	Landfill Engineer Landfill Ops	Lead Support	10-31-04	Straw wattles
6	Install additional silt fencing where required	Landfill Engineer Landfill Ops	Lead Support	10-31-04	Silt fencing
7	Armor additional drainage channels	Landfill Engineer Landfill Ops	Lead Support	10-31-04	Erosion control mats and rip rap

Comments (report performance/milestones):